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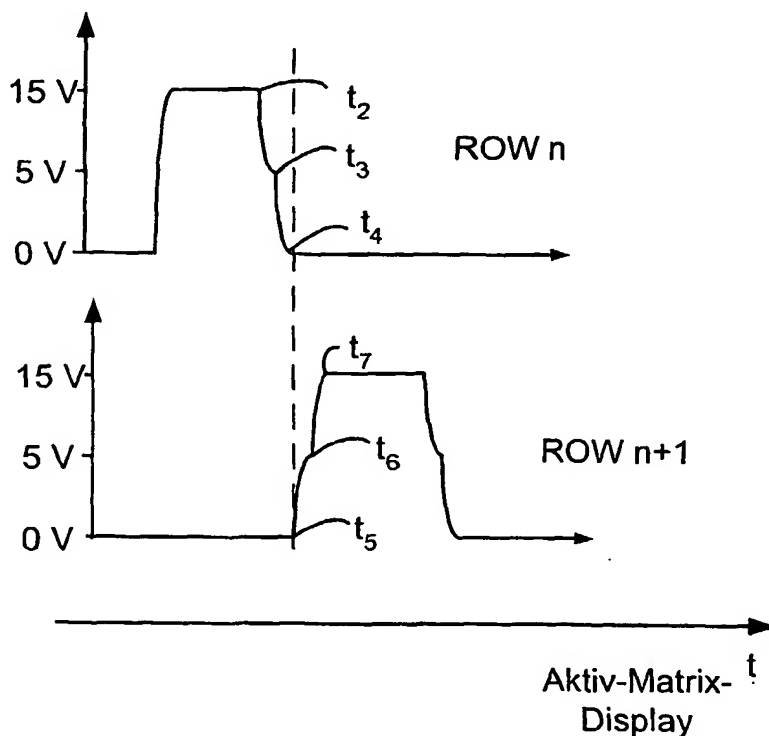
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(54) Title: DISPLAY DEVICE WITH CHARGE SHARING



(57) Abstract: The invention relates to a display device and to a method of controlling a display device. A display device with a plurality of pixels arranged in rows  $n$  and columns  $m$  is presented so as to render possible an energy saving through charge sharing in the display device, in particular an active matrix display, in which the pixels can be activated via control lines (6), and with a row driver circuit (4) for driving the  $n$  rows with a row voltage ( $V_{row}$ ), wherein the rows of the display device can be consecutively selected from 1 to  $n$ , and with a column driver circuit (3) for driving the  $m$  columns with a column voltage ( $V_{col}$ ) corresponding to the picture data of the pixels (8) of the selected line to be displayed, and wherein it is provided for a transition from a selected row  $n$  to another row  $n+1$  that the row voltage ( $V_{row}$ ) is connected to an intermediate voltage level ( $V_z$ ), and the row  $n+1$  is first connected to the intermediate voltage level ( $V_z$ ) and subsequently is charged up to the required row voltage ( $V_{row}$ ).

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## INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
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## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/54108 A (ULTRACHIP INC) 26 July 2001 (2001-07-26) page 7, lines 7-27 page 10, line 6 - page 12, line 28	1-7
X	GB 2 326 013 A (LG SEMICON CO LTD) 9 December 1998 (1998-12-09) page 5, line 14 - page 6, line 6 page 6, line 25 - page 7, line 24 page 8, line 16 - page 9, line 31	1-7

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☒ Patent family members are listed in annex.

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